



**TEXAS DEPARTMENT OF TRANSPORTATION
AUSTIN DISTRICT LAB**

7901 N. IH 35 AUSTIN, TX 78753

FAX: (512) 832-7176 PHONE: (512) 832-7093

AUS LAB NUMBER: 202040

SITEMANAGER # SSAUSLAB202040

REPORT DATE: 7/9/2020

STOCKPILE ID# 590

STOCKPILE QTY 11,000 CY

Report of: Physical Test for Flexible Base Material
Specifications: TxDOT Standard Specification Item 247 Type A, Grade 1, 2, 4, and 5

Test Methods: TEX-100-E, TEX-101-E, TEX-104-E, TEX-105-E, TEX-106-E
TEX-110-E, TEX-113-E, TEX-116-E, TEX-117-E_Part II

Producer: Chanas Aggregates (Johnson City)

Sampled By: Bryan Barrera

Date Sampled: 6/4/2020

Material Description: Flex Base

Technician: Bryan Barrera

Moisture-Density Relationship

Maximum Dry Unit Wt. 149.0 pcf
Optimum Moisture, OM 5.3 %

Texas Triaxial: TEX-117-E, Part II (Accelerated Method)

	Value in psi.	GRADE 1-2	GRADE 3	*GRADE 4	GRADE 5
Compressive Strength at 0 psi Lateral Pressure	46	Min. 35	Min.	--	--
Compressive Strength at 3 psi Lateral Pressure	111	--	--	Min. 90	Min. 90
Compressive Strength at 15 psi Lateral Pressure	206	Min. 175	Min.	Min. 175	Min. 175

Wet Ball Mill (Tx-116-E)

	Test (1)	Test (2)	Gr. 1-2,4,5
Wet Ball Mill Value	21	20	Max. 40
Increase in Minus #40	8	6	Max. 20

Sieve Analysis (Tx-110-E)

	1	2	3	4	5	6	Average	GRADE 1-2	GRADE 3	*GRADE 4	GRADE 5
1-3/4"	0	0	0	4	0	0	1	0 - 10	0 - 10	0 - 5	0 - 5
7/8"	16	19	13	20	16	12	16	10 - 35	- -	10 - 35	10 - 35
3/8"	35	44	37	43	38	38	39	30 - 65	- -	30 - 65	30 - 65
#4	59	57	59	58	50	50	56	45 - 75	45 - 75	45 - 75	45 - 75
#40	73	72	75	73	68	73	72	65 - 90	50 - 85	70 - 90	70 - 90

Atterberg Limits (Tx-104-106-E)

	1	2	3	4	5	6	Average	GRADE 1-2	GRADE 3	*GRADE 4	GRADE 5
Liquid Limit	24	23	24	23	24	24	24	Max. 40	Max. 40	Max. 35	Max. 35
Plastic Limit	19	20	19	18	19	19	19	--	--	--	--
Plasticity Index	5	3	5	5	5	5	5	Max. 10	Max. 12	Max. 10	Max. 10
Linear Shrinkage											

Reviewed By: **Gisel Carrasco, P.E.**
Approval: **Grade 1-2: Meets specifications
Grade 3: Meets specifications
Grade 4: Meets specifications
Grade 5: Meets specifications**

* These are Austin District Grade 4 requirements; Other District Grade 4 requirements may vary or differ, please refer to the plan notes of the project.

This test report can not be used to represent any other material previously or subsequently produced from the source stated above or any other source. The material approved by this test report can only be used for TxDOT or TTA projects, unless otherwise approved by the Austin District Laboratory. This test report can not serve as verification of the material delivered to a project and must be verified with haul tickets. The approval status of the stockpile is subject to change, if specification requirements are violated or the material becomes non-compliant with requirements. Material delivered to the project can be rejected based on project level testing, as required by specification. This test report can not be used for design or bidding purposes. Please contact the Austin District Laboratory (512) 832-7093, if there is any question to the approval status of this stockpile. This test report is only valid for twelve (12) months from the report date, after which the stockpile will be retested or ownership will be released by TxDOT.